| POSITION                  | INITIALS   | ID NO. | DATE     |  |  |  |  |  |
|---------------------------|------------|--------|----------|--|--|--|--|--|
|                           |            | to de  | alista   |  |  |  |  |  |
| FEE DETERMINATION         | <u> DU</u> | 68404  | 3/14/00  |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       | KED        |        | 3/20/00  |  |  |  |  |  |
| FORMALITY REVIEW          | 992        | 88578  | 5/3/2000 |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW |            | 64149  | 7-23-6   |  |  |  |  |  |
|                           |            |        |          |  |  |  |  |  |

## INDEX OF CLAIMS

| ✓Rejected                  | N Non-elected |
|----------------------------|---------------|
| = Allowed                  | IInterference |
| (Through numeral) Canceled | A Appeal      |
| ÷ Restricted               | 0Objected     |

| Claim  | im Date   |                     |   |                         |                |          |                |            | Claim Date     |                             |          |          |           |          |          |                | 7        | Claim     |                 |          |                  |          | Date     |          |              |          |              |                  |                |          |              |
|--|---|---------------------|---|-------------------------|----------------|----------|----------------|------------|----------------|-----------------------------|----------|----------|-----------|----------|----------|----------------|----------|-----------|-----------------|----------|------------------|----------|----------|----------|--------------|----------|--------------|------------------|----------------|----------|--------------|
|  | П.  | $\mathbf{T}$        | TT  | <u> </u>                | Τ              | П        | $\dashv$       | F          | $\top$         | -1                          | ユ        | Т        | 7         | Т        | Т        |                | Т        | Т         | T               | 1        |                  | - T      |          |          |              | - 1      |              |                  |                |          |              |
| Final<br>Original<br>9/02  | 3 03  | <b>*</b>            | 1. 1  |                         |                |          | İ              | 1-         | 7 5            | 2   3                       | 700      | - {      | l         |          | Ţ        |                |          |           | ı               |          | ایرا             | Original | 1        |          | - 1          |          |              |                  | - }            | - [      |              |
| Final<br>Origin  | 7   | 4                   | 1 1   |                         |                |          |                |            | 2   2          | ֓֟֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֟ <u>֚</u> | B.       | -        | - [       |          | 1        |                | ı        | 1         | -               |          | Final            | Ĭ.       |          |          | - {          |          |              | -                | - 1            |          | ļ            |
| ΙOΟ  |   |                     | $\perp$   |                         | <b>-</b>       | $\vdash$ |                | 4          | 7 2            | 4                           | 끜        | +        | +         | +        | +        | +              | +        | +         | +               | -        | H <del>-</del> H | 101      | $\vdash$ | 寸        | -+           | 寸        | 7            | _                | 寸              | $\top$   | $\neg$       |
|  | V=  | -                   |   |                         | $\perp$        |          | _              | 14         | 7 5            | 1                           | =        | _        | _         | +        | +        | 4-             | -+       | -         | +               | 4        | $\vdash$         |          |          | $\dashv$ |              | $\dashv$ | $\dashv$     | -+               | $\dashv$       | +        | -            |
| 2 V  | v =   | = -                 |   |                         |                |          |                | 4          | 8 5<br>9 5     | ᅪ                           | Ш        | _        | _         | _        | $\bot$   | 1.             | $\perp$  | _         | 4               | 4        | -                | 102      | $\vdash$ | -        | -+           | -        | $\dashv$     | -                | +              | +        | <u>-</u> ــا |
| 2 3 1  | V =   |                     | $\top$  |                         | T              |          |                | 4          | <b>9</b> 15    | зу                          | П        | ĺ        | - 1       | ļ        |          |                |          |           | ı.              | _].      |                  | 103      |          |          | _            | _        | _            | _                |                | 4        |              |
| J 4 V  | V :   |                     | +   |                         | +-             | $\vdash$ | -              | 5          | n:             | 4                           | П        |          | 寸         | $\neg$   | Т        |                |          | $\neg$    | T.              |          |                  | 104      |          |          |              | _        | $\dashv$     | _                |                | $\dashv$ |              |
| 2 2 V<br>3 3 V<br>4 4 V<br>5 5 V                                     |   |                     | +   | $\dashv$                | +              | 1 1      | _              |            |                | 55                          | T        | $\neg$   | T         | $\top$   | $\top$   | T              | T        | T         | $\top$          | 7        | Γ                | 105      |          |          | 1            |          |              |                  | $\perp$        |          |              |
| 2 3 4  | +   |                     | -   | +                       | +              | ╁╌┼      | $\dashv$       | 1          | 3              | 6                           | ††       | +        | $\dashv$  | 十        | 十        | $\top$         | 7        | $\top$    |                 |          |                  | 106      |          |          | ╗            | $\neg$   | $\neg$       | $\neg$           |                |          |              |
| 0 6 V  |   | _                   | ┵   | $\dashv$                | ┿              | 1-1      | ᅥ              | ينا        | 2              | 7                           | ╫        | +        | $\dashv$  | +        | +        | +              | -        | $\dashv$  | _               | 7        | -                | 107      | $\Box$   | $\neg$   |              | ヿ        | $\exists$    |                  | 丌              | $\neg$   |              |
|  | VE  | = -                 | 4   | _                       | +-             | +        |                | 1          | <del>(1)</del> | 8                           | ₩        | -+       | -         | +        | +        | -+             | +        | -+        | +-              | +        | $\vdash$         | 108      | Н        | $\neg$   | 寸            | $\neg$   |              | $\neg$           | $\neg$         | $\neg$   |              |
| 10E3V  | V =   | 2                   | 4-4   | _                       | <del> </del> — | 1        | _              | CACACACALA | #              | _                           | -11      |          | -         | -+       | +        | +              | +        | +         | +               | ┥        | -                | 109      | $\vdash$ | $\dashv$ | -            | _        | $\dashv$     |                  | $\dashv$       | 一        |              |
| 9   V  | v =   | -                   |   |                         | $\perp$        | $\bot$   | _              | 5          | 0              | 9                           | 41       | _        |           | -        | +        | -              | -+       | +         | +               | 4        | -                |          | $\vdash$ | $\dashv$ |              | -1       | $\dashv$     | -+               | $\dashv$       | $\dashv$ |              |
| 12 10 1  | V =   | ا د                 |   |                         |                |          |                | Ď          | 6              | 30                          | Ш        | _        | _         | Ц.       | $\dashv$ | 4              | _        | 4         | - -             | 4        | $\vdash$         | 110      | $\vdash$ |          | -+           | -        |              | $\dashv$         | $\dashv$       | -        | _            |
| 900  | V :   |                     |   |                         |                |          |                | 5          | 3L             | 31                          | Ш        |          |           |          | 丄        |                | _        | _ _       |                 | _        |                  | 111      | _        | ٠        | _            | $\dashv$ | $\dashv$     | $\dashv$         | -+             | $\dashv$ |              |
| 20 12 V  | 6 -   | -                   | 1.  |                         | 1              | $\top$   |                | E          | 86             | 2                           | $\prod$  | 1        |           |          | J        |                |          |           |                 |          | _                | 112      |          | Ш        |              | $\sqcup$ | ᆜ            | $\sqcup$         | _              | _        |              |
| 2 13 V   |   |                     | +   |                         |                | 17       |                | Ĕ          | ŽĮ.            | 33                          |          |          | $\neg$    | П        | $\top$   |                |          | ΞĪ        |                 |          |                  | 113      |          |          |              | Ш        |              |                  | _              | $\Box$   | _            |
| E  | T-1   |                     | +   | +-                      | +              | +        | $\dashv$       | ۲          |                | 4                           | -1       | -        |           |          | $\dashv$ | 7              | 寸        | 一         | _               | 7        |                  | 114      |          |          |              |          |              |                  |                |          | _            |
| 3000   |   | +ح                  | -   | $\vdash$                | +-             | +        | $\dashv$       | -          | -              | 55                          | -        |          |           | $\dashv$ | +        | -+             | $\dashv$ | -+        | -               | ╡.       |                  | 115      | T        | $\Box$   |              | П        |              | П                | $\Box$         | $\neg$   |              |
| 3) 15  | =   | =                   | $\perp$   |                         | +              | 4-1      | $\dashv$       | <u> </u>   |                | -+                          |          | -        |           | -+       | +        | $\dashv$       | -+       | +         | -+              | ┨ ๋      | -                | 116      | +-       | Н        |              | 一        | $\neg$       | $\sqcap$         | $\dashv$       | $\neg$   | <u> </u>     |
| ODN  | 3   | _                   |   |                         | -              | 1        |                | <br> -     | _              | 6                           |          | _        |           | -        | -+       | ᅪ              | -        | -         | +               | -{       | $\vdash$         | 117      | ┿        | $\vdash$ | _            |          | $\vdash$     | $\Box$           | $\neg$         | $\neg$   | Г            |
| 14 4   | B338  | $\perp$             |   | $\sqcup \bot$           |                | $\perp$  | Ш              | -          | _              | 37                          | _        |          | _         |          |          | 4              |          | $\dashv$  | -               | -        | -                | 118      | +-       | H        |              | $\vdash$ | $\vdash$     | $\vdash$         |                | $\dashv$ |              |
| 18 N   | 2   |                     |   |                         |                | ]        | $\Box$         | L          | (              | 86                          |          |          |           | _        | $\dashv$ |                | _        | 4         | -               | 4        | -                |          |          | Н        | _            | $\vdash$ | Н            | $\vdash$         | <del>,</del> + | $\dashv$ | ├            |
| 19 N   | 2   | T                   |   |                         |                | T        |                | - 1        | - 10           | 59                          |          |          | 1         |          |          |                |          |           |                 |          | L                | 119      | 1        | Ш        |              | Щ        | ш            | $\sqcup$         | ш              | _        | <u> </u>     |
|  | 1.7   | _                   | 1   |                         | $\neg$         | 1        | П              | Ţ          | 1              | 70                          |          |          |           |          | П        |                |          |           |                 |          | -                | 120      | İ        |          |              |          |              |                  |                |          | L            |
|  | +   | ₹                   |   | <del>  -   -</del>      |                | +        | $\vdash$       | F          | -+             | 71                          | _        | -        | _         |          | $\dashv$ | _              | 寸        | 7         |                 | 7        |                  | 121      | 1        |          |              | П        |              |                  | П              |          |              |
| 3 21   |   | ₩                   |   |                         | ┿              | ╌        | $\vdash$       | ŀ          | -              | 72                          | _        | -        | Н         | $\dashv$ | -        | -              | -1       | -†        | $\dashv$        | _        | $\vdash$         | 122      | 1-       | ļ -      | -            |          | Г            | ,                | П              | П        |              |
| 14 22  | 10  | 11                  |   |                         | - -            | -        | Н              | H          |                | 73                          | _        | ⊣        | H         | -        | $\dashv$ | $\dashv$       | -+       | +         | -+              | $\dashv$ | $\vdash$         | 123      | +        | T        |              | H        | $\vdash$     | _                | 口              |          | Г            |
| 15 23  | اسدا  | Ш                   |   |                         |                | 4_       | Ш              | -          | _              | _                           |          | <u> </u> | _         |          | _        |                |          | $\dashv$  | -+              | $\dashv$ | -                | 124      | +-       | -        | ├            | $\vdash$ |              | H                | $\Box$         | г        | ╁            |
| 16 24  | 4   | Ш                   |   |                         | $\bot$         |          |                | L          |                | 74                          |          | _        | _         |          | .—       | _              | _        |           |                 | _        | $\vdash$         |          | +        | ├—       | -            | ₩        | ├-           | $\vdash$         | $\vdash$       | ⊢        | ⊢            |
| 17 25  | 1   | П                   |   | П                       |                | 1        |                |            |                | 75                          |          |          |           |          | $\sqcup$ |                |          | _         | _               | _        | $\vdash$         | 125      | 4_       | ļ        | Ļ            | <b>↓</b> | ⊢            | <del>  -  </del> | $\vdash$       | $\vdash$ | ₩            |
| 22 26  | 1   | $^{\dagger\dagger}$ | $\neg \top$                                       |                         | ┰              | 1        |                | Γ          |                | 76                          |          | Γ        |           |          | 1        |                |          |           |                 |          | L                | 126      | 丄        | <u> </u> | L_           | L        | <del> </del> | <u> </u>         | Ш              | _        | L            |
|  |   | 1†                  | <del> </del>                                      | 1 1                     | $\vdash$       | 1        | П              |            | •              | 77                          |          | П        |           |          | П        |                |          |           |                 |          | 1                | 127      |          |          | <u> </u>     | 上        | _            | L                | $\sqcup$       | 乚        | L            |
|  | 1   | ++                  |   | +                       |                | +-       | $\vdash$       |            |                | 78                          | ┢        | $\vdash$ |           |          | П        |                |          |           |                 | 7        | Г                | 128      | Ţ        | Ţ        |              |          |              |                  |                | _        | L            |
| 24 28  | 15  | ++                  | +   | ╁┼                      | +-             | +        | ╁┤             | l 1        | _              | 79                          | $\vdash$ | ╁        | ╁╌        | Н        | $\sqcap$ | $\neg \neg$    |          | $\neg$    | $\neg \dagger$  | ┑        |                  | 129      | $\neg$   |          |              | T        |              | П                |                | Г        | Π            |
| 25 29  | 1   | 11                  | _   | <del> </del>            |                |          | $\vdash$       |            |                |                             | -        | ├        | ┝         | $\vdash$ | $\vdash$ | $\dashv$       |          | $\exists$ | +               | ᅥ        | -                | 130      | +        | $\vdash$ | 1            | +        | $\vdash$     | 1                | М              | Г        | 1            |
| 26 30  | <u></u>   | Ц.                  |   | $\sqcup$                | _              | _        | 1-1            |            | $\dashv$       | 80                          | _        | ├        | ┡         | -        | $\vdash$ |                |          |           | $\dashv$        |          | $\vdash$         | 131      |          | +-       | $\vdash$     | +        | +-           | +                | t              | $\vdash$ | T            |
| 27 31  | 1   | Ш                   |   |                         |                |          |                |            |                | 81                          | L.       | ╙        | <u> _</u> | _        | Ш        |                |          | Ш         |                 |          | $\vdash$         |          | +-       | ╀        | $\vdash$     | +-       | ╁            | +                | ┼              | ╁        | +-           |
| 28 32  | V   | П                   |   |                         |                |          |                |            |                | 82                          |          |          | 丄         |          |          | L.             |          |           | $\dashv$        | _        | <u> </u>         | 132      |          | ╄        | ┼-           | +-       | ₩            | ╁                | ┼-             | ₩        | ╁╾           |
|  | , =   | П                   |   |                         |                |          |                | ] [        |                | 83                          | l _      |          | <u> </u>  | _        | Ш        |                |          |           |                 | _        | _                | 133      | ┷        | ↓_       | <del> </del> | ↓_       | ╄-           | 4-               | ╄-             | ⊢        | +-           |
| 37 34 4  |   | 1                   | -   | 1                       | 一              | 1        |                |            |                | 84                          |          | Γ        |           |          |          |                |          |           |                 | _]       | L                | 134      |          | $\perp$  | ļ.,          | 丄        | 4_           | ↓_               | $\vdash$       | 丨        | 1            |
| 37 34 4<br>34 35 E   |   | $\vdash$            | +   | † †                     | $\top$         | _        | Τ              | j i        | $\neg$         | 85                          | Γ        | 1        | 1         |          | П        |                |          |           |                 | _]       |                  | 135      | $\perp$  | L        | _            | $\perp$  | $\perp$      | 1                | _              | $\perp$  | 1            |
|  |   | +                   |   | ++                      | +              | +        | $t^{-}$        |            | $\neg$         | 86                          | Τ        | 1        | Τ-        | П        | П        | T-             |          |           |                 | $\neg$   | Г                | 136      |          | 1        | Ĺ            |          | 1            | 1                | $\perp$        |          | L            |
| 20 33 1  | =   | +                   | +   | ++                      | -+             | +-       | +-             | 1 1        |                | 87                          | $\vdash$ | +        | +         |          | ✝        | $\vdash$       | Ι-       | Ι         | $\vdash$        | 7        |                  | 137      | $\dashv$ | $\top$   | Τ            | T        | T            | T                | Т              | T        | Γ            |
| 36 37  | F =   | +                   | -   | +-+                     | -+             | +        | +-             | 1 1        |                | 88                          | ╁        | +        | ╁         | $\vdash$ | $\vdash$ | ┰              | -        |           | $\vdash \vdash$ | -        | -                | 138      | _        | +        | 1            | 1        | T            | T                | 1              | T        | T            |
| 37 38 3  | 5 =   | 41                  | _ _   | $\downarrow \downarrow$ | _              | +        | <del> </del> - | 1 1        |                |                             | +        | +-       | ╁         | $\vdash$ | +-       | <del>  -</del> | $\vdash$ | -         | $\vdash$        | $\dashv$ | $\vdash$         |          | +        | +        | +-           | 十        | ۲            | T                | +-             | T        | +            |
| 38 39  | =   | $\perp$             |   |                         |                | $\perp$  | _              | 1 1        |                | 89                          | -        | 4_       | 1         | $\vdash$ |          | ⊢              | ļ.,      | -         | $\vdash$        |          | -                | 139      | +        | +-       | +            | +        | +-           | +                | +              | +        | 十            |
| 9 40   | 71  | $\nabla$            |   |                         |                |          |                |            | L              | 90                          | 1        |          |           | L        | L        | <u>L</u>       |          | _         | $\sqcup$        |          | L                | 140      |          | 4        | 1-           | 十        | +            | +-               | +-             | +        | +            |
| 18 41  | 4-  | 1                   | $\overline{}$                                     | † †                     | +              | _        | T              | 1          |                | 91                          | Τ        | Т        | Τ         |          | Г        | Γ              |          |           |                 | 1        |                  | 141      |          | 1        | $\perp$      | 1_       | $\perp$      | $\perp$          | $\perp$        | 上        | $\perp$      |
|  | <del>)                                     </del> | ╫                   | <del>-                                     </del> | ++                      |                | +        | +              | 1          | $\vdash$       | 92                          |          | $\top$   | 1         | Τ        | $\top$   | 1              | $\Box$   | 1         | П               | $\neg$   |                  | 142      |          | Τ        | Ţ            | Ţ        |              | L                |                | $\perp$  | 1            |
| 29 42 /  |   | 4                   | +   | ++                      | $\dashv$       | +        | +-             | -          | -              | 93                          | -        | +-       | +         | +        | +-       | $\vdash$       | $\vdash$ | $\vdash$  | tt              | $\neg$   |                  | 143      | $\top$   | 1        | $\top$       | 1        | T            | T                | T              | 1        | Τ            |
| 37   | <b>&gt;</b> =                                     | 41                  | _   | +                       | -+             | - -      | +-             | -          | <del> </del>   | -                           |          | +-       | +         | +-       | +        | +              | $\vdash$ | +-        | $\vdash$        | $\dashv$ | -                | 144      | $\dashv$ | $\top$   | $\top$       | +        | +            | 十                | $\top$         | T        | T            |
| 40 40  |   |                     |   |                         |                |          | $\perp$        | 1          | <u> </u>       | 94                          |          | +        | +-        | ╄        | +        |                | 1-       | ┼         | -               | $\Box$   | $\vdash$         | 145      | +        | +        | ╁            | +-       | +            | +                | +              | +        | +            |
| 4 45   |   | $\Box$              |   |                         |                | 丄        | $\perp$        | 1          |                | 95                          |          | 1        | 1         | 1_       | $\perp$  | ⊢              | ┞-       | ╀         | $\vdash$        | $\vdash$ | - }-             |          | +        | +        | +-           | +-       | +-           | +                | +              | +        | +            |
| 42 46  | T   | П                   |   | 17                      |                |          | $\perp$        | _          | L              | 96                          |          | 1        | ┸         | _        | 上        | <u> </u>       | $\perp$  | ļ         | <b> </b>        | Щ        | L                | 146      | _        | 4-       | ÷            | +-       | +            | +                | +              | +        | +            |
| 12 47  | $\top$  | П                   |   |                         |                | $\top$   |                | 7          |                | 97                          | · [      | T        |           |          |          |                | 1        | 1         |                 | Ш        | L                | 147      | $\bot$   | ┸        |              | _        | 4            | $\bot$           | _              | 4        | 4            |
| 11 48  |   | 1                   | $\vdash$  | +                       | $\vdash$       | $\top$   | ╁              | 1          |                | 98                          |          | 1        | T         | T        | Т        | 1              | Γ        |           | Π               |          |                  | 148      |          | L        | $\perp$      | $\perp$  | 丄            |                  | $\perp$        | 1        | 4            |
| 39 43<br>40 44<br>41 45<br>42 46<br>43 47<br>44 48<br>45 49<br>46 50 | $\dashv$  | H                   | <del>                                     </del>  | +-                      | $\vdash$       | +        | +              | ┪          | $\vdash$       | 99                          |          | 1        | T         | +        | 1        | $\top$         | T        | Τ         | T               | П        | Г                | 149      |          | T        | T            |          | $\prod$      | $\perp$          | _              | 1        | $\perp$      |
| 17 49  |   | 1                   |   |                         | $\vdash$       | +        | +              | ┪          | <del> </del>   | 10                          | _        | +        | +         | +        | +        | +-             | 1        | $\dagger$ | $T^-$           | $\Box$   |                  | 150      | $\top$   | $\neg$   | $\top$       | 丁        | T            | I                | I              | I        | I            |
|  | - 1   | حورا                | <u> </u>  | 1                       |                |          |                |            |                | 1.0                         | <b>⋍</b> |          |           |          |          | ۰.             |          |           |                 |          |                  |          |          |          | _            |          |              |                  |                | -        | -            |

If more than 150 claims or 10 actions staple additional sheet here

(LEFT INSIDE)

Best Available Copy